

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/467,160

DATE: 04/06/2001
TIME: 15:03:42

#10

Input Set : N:\Crf3\RULE60\09467160.txt
Output Set: N:\CRF3\04062001\I467160.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Pelus, Louis M
7 Bhatnagar, Pradip K
8 King, Andrew G
9 Balcarek, Joanna M

11 (ii) TITLE OF INVENTION: Methods of Enhancing Bioactivity of
12 Chemokines

14 (iii) NUMBER OF SEQUENCES: 29

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: SmithKline Beecham Corporation -
18 Corporate Patents

19 (B) STREET: 709 Swedeland Road

20 (C) CITY: King of Prussia

21 (D) STATE: PA

22 (E) COUNTRY: USA

23 (F) ZIP: 19406-2799

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: Floppy disk

27 (B) COMPUTER: IBM PC compatible

28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

29 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

31 (vi) CURRENT APPLICATION DATA:

C--> 32 (A) APPLICATION NUMBER: US/09/467,160

C--> 33 (B) FILING DATE: 20-Dec-1999

34 (C) CLASSIFICATION:

36 (vii) PRIOR APPLICATION DATA:

37 (A) APPLICATION NUMBER: 08/557,142

38 (B) FILING DATE:

40 (viii) ATTORNEY/AGENT INFORMATION:

41 (A) NAME: Hall, Linda E.

42 (B) REGISTRATION NUMBER: 31,763

43 (C) REFERENCE/DOCKET NUMBER: SBCP50161

45 (ix) TELECOMMUNICATION INFORMATION:

46 (A) TELEPHONE: 215-270-5015

47 (B) TELEFAX: 215-270-5090

50 (2) INFORMATION FOR SEQ ID NO: 1:

52 (i) SEQUENCE CHARACTERISTICS:

53 (A) LENGTH: 72 amino acids

54 (B) TYPE: amino acid

55 (D) TOPOLOGY: unknown

57 (ii) MOLECULE TYPE: protein

61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

63 Ala Pro Ile Ala Asn Glu Leu Arg Cys Gln Cys Leu Gln Thr Met Ala

64 1 5 10 15

67 Gly Ile His Leu Lys Asn Ile Gln Ser Leu Lys Val Leu Pro Ser Gly

68 20 25 30

ENTERED

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71 Pro His Cys Thr Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Arg
72 35 40 45
75 Glu Ala Cys Leu Asp Pro Glu Ala Pro Leu Val Gln Lys Ile Val Gln
76 50 55 60
79 Lys Met Leu Lys Gly Val Pro Lys
80 65 70

82 (2) INFORMATION FOR SEQ ID NO: 2:

84 (i) SEQUENCE CHARACTERISTICS:
85 (A) LENGTH: 73 amino acids
86 (B) TYPE: amino acid
87 (D) TOPOLOGY: unknown

89 (ii) MOLECULE TYPE: protein

93 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

95 Ala Ser Val Ala Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln
96 1 5 10 15
99 Gly Ile His Pro Lys Asn Ile Gln Ser Val Asn Val Lys Ser Pro Gly
100 20 25 30
103 Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Arg
104 35 40 45
107 Lys Ala Cys Leu Asn Pro Ala Ser Pro Ile Val Lys Lys Ile Ile Glu
108 50 55 60
111 Lys Met Leu Asn Ser Asp Lys Ser Asn
112 65 70

114 (2) INFORMATION FOR SEQ ID NO: 3:

116 (i) SEQUENCE CHARACTERISTICS:
117 (A) LENGTH: 73 amino acids
118 (B) TYPE: amino acid
119 (D) TOPOLOGY: unknown

121 (ii) MOLECULE TYPE: protein

125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

127 Ala Pro Leu Ala Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln
128 1 5 10 15
131 Gly Ile His Leu Lys Asn Ile Gln Ser Val Lys Val Lys Ser Pro Gly
132 20 25 30
135 Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Gln
136 35 40 45
139 Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Lys Lys Ile Ile Glu
140 50 55 60
143 Lys Met Leu Lys Asn Gly Lys Ser Asn
144 65 70

146 (2) INFORMATION FOR SEQ ID NO: 4:

148 (i) SEQUENCE CHARACTERISTICS:
149 (A) LENGTH: 73 amino acids
150 (B) TYPE: amino acid
151 (D) TOPOLOGY: unknown

153 (ii) MOLECULE TYPE: protein

157 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

159 Ala Ser Val Val Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln
160 1 5 10 15

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163 Gly Ile His Leu Lys Asn Ile Gln Ser Val Asn Val Arg Ser Pro Gly
164 20 25 30
167 Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Lys
168 35 40 45
171 Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Gln Lys Ile Ile Glu
172 50 55 60
175 Lys Ile Leu Asn Lys Gly Ser Thr Asn
176 65 70

178 (2) INFORMATION FOR SEQ ID NO: 5:

180 (i) SEQUENCE CHARACTERISTICS:

181 (A) LENGTH: 5 amino acids
182 (B) TYPE: amino acid
183 (C) STRANDEDNESS: unknown
184 (D) TOPOLOGY: unknown

186 (ii) MOLECULE TYPE: peptide

189 (ix) FEATURE:

190 (A) NAME/KEY: Modified-site
191 (B) LOCATION: 3..5
192 (D) OTHER INFORMATION: /note= "Asp bonds to NH, Lys

193 bonds

194 to CO, both NH and CO bond to CH which bonds to
195 (CH₂)₄ which bonds to mirror image of peptide."

197 (ix) FEATURE:

198 (A) NAME/KEY: Modified-site
199 (B) LOCATION: 3..5

200 (D) OTHER INFORMATION: /note= "Xaa in position 4 is
201 diaminosuberic acid."

203 (ix) FEATURE:

204 (A) NAME/KEY: Modified-site
205 (B) LOCATION: 1..2

206 (D) OTHER INFORMATION: /note= "Xaa in position 1 is
207 pyroglutamic acid."

210 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

W--> 212 Xaa Glu Asp Xaa Lys
213 1 5

215 (2) INFORMATION FOR SEQ ID NO: 6:

217 (i) SEQUENCE CHARACTERISTICS:

218 (A) LENGTH: 5 amino acids
219 (B) TYPE: amino acid
220 (D) TOPOLOGY: unknown

222 (ii) MOLECULE TYPE: protein

225 (ix) FEATURE:

226 (A) NAME/KEY: Modified-site
227 (B) LOCATION: 1..2

228 (D) OTHER INFORMATION: /note= "Xaa in position 1 is
229 pyroglutamic acid."

231 (ix) FEATURE:

232 (A) NAME/KEY: Modified-site
233 (B) LOCATION: 3..5

RAW SEQUENCE LISTING

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Input Set : N:\Crf3\RULE60\09467160.txt
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235 bonds236 to CO, both NH and CO bond to CH which bonds to
237 (CH₂)₂ which bonds to mirror image of peptide."

239 (ix) FEATURE:

240 (A) NAME/KEY: Modified-site

241 (B) LOCATION: 3..5

242 (D) OTHER INFORMATION: /note= "Xaa in position 4 is
243 diaminoadipic acid."

246 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

W--> 248 Xaa Glu Asp Xaa Lys

249 1 5

251 (2) INFORMATION FOR SEQ ID NO: 7:

253 (i) SEQUENCE CHARACTERISTICS:

254 (A) LENGTH: 5 amino acids

255 (B) TYPE: amino acid

256 (C) STRANDEDNESS: unknown

257 (D) TOPOLOGY: unknown

259 (ii) MOLECULE TYPE: peptide

262 (ix) FEATURE:

263 (A) NAME/KEY: Modified-site

264 (B) LOCATION: 3..5

265 (D) OTHER INFORMATION: /note= "Glu bonds to NH, Lys

266 bonds

267 to CO, both NH and CO bond to CH which bonds to
268 (CH₂)₄ which bonds to mirror image of peptide."

270 (ix) FEATURE:

271 (A) NAME/KEY: Modified-site

272 (B) LOCATION: 3..5

273 (D) OTHER INFORMATION: /note= "Xaa in position 4 is

274 diaminosuberic acid."

276 (ix) FEATURE:

277 (A) NAME/KEY: Modified-site

278 (B) LOCATION: 1..2

279 (D) OTHER INFORMATION: /note= "Xaa in position 1 is

280 pyroglutamic acid"

283 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

W--> 285 Xaa Glu Glu Xaa Lys

286 1 5

288 (2) INFORMATION FOR SEQ ID NO: 8:

290 (i) SEQUENCE CHARACTERISTICS:

291 (A) LENGTH: 5 amino acids

292 (B) TYPE: amino acid

293 (C) STRANDEDNESS: unknown

294 (D) TOPOLOGY: unknown

296 (ii) MOLECULE TYPE: peptide

299 (ix) FEATURE:

300 (A) NAME/KEY: Modified-site

301 (B) LOCATION: 3..5

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302 (D) OTHER INFORMATION: /note= "Asp bonds to NH, Lys
303 bonds"

304 to CO, both NH and CO bond to CH which bonds
305 (CH₂)₄ which bonds to mirror image peptide."

307 (ix) FEATURE:

308 (A) NAME/KEY: Modified-site

309 (B) LOCATION: 3..5

310 (D) OTHER INFORMATION: /note= "Xaa in position 4 is
311 diaminosuberic acid."

313 (ix) FEATURE:

314 (A) NAME/KEY: Modified-site

315 (B) LOCATION: 1..2

316 (D) OTHER INFORMATION: /note= "Xaa in position 1 is
317 pyroglutamic acid."

320 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

W--> 322 Xaa Asp Asp Xaa Lys

323 1 5

325 (2) INFORMATION FOR SEQ ID NO: 9:

327 (i) SEQUENCE CHARACTERISTICS:

328 (A) LENGTH: 5 amino acids

329 (B) TYPE: amino acid

330 (C) STRANDEDNESS: unknown

331 (D) TOPOLOGY: unknown

333 (ii) MOLECULE TYPE: peptide

336 (ix) FEATURE:

337 (A) NAME/KEY: Modified-site

338 (B) LOCATION: 1..3

339 (D) OTHER INFORMATION: /note= "Xaa in position 1 is
340 picolinic acid (Pic)."

342 (ix) FEATURE:

343 (A) NAME/KEY: Modified-site

344 (B) LOCATION: 3..5

345 (D) OTHER INFORMATION: /note= "Asp bonds to NH, Lys

346 bonds"

347 to CO, both NH and CO bond to CH which bonds to

348 (CH₂)₄ which bonds to mirror image peptide."

350 (ix) FEATURE:

351 (A) NAME/KEY: Modified-site

352 (B) LOCATION: 3..5

353 (D) OTHER INFORMATION: /note= "Xaa in position 4 is

354 diaminosuberic acid."

357 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

W--> 359 Xaa Glu Asp Xaa Lys

360 1 5

362 (2) INFORMATION FOR SEQ ID NO: 10:

364 (i) SEQUENCE CHARACTERISTICS:

365 (A) LENGTH: 5 amino acids

366 (B) TYPE: amino acid

367 (C) STRANDEDNESS: unknown

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/467,160

DATE: 04/06/2001
TIME: 15:03:43

Input Set : N:\Crf3\RULE60\09467160.txt
Output Set: N:\CRF3\04062001\I467160.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29